Sports Medicine

Division Details

RESEARCH AND TRAINING DETAILS

| Faculty                        | 7 |
| Research Fellows and Post Docs | 2 |
| Total Annual Grant Award Dollars | $769,806 |
| Total Annual Industry Award Dollars | $328,336 |

CLINICAL ACTIVITIES AND TRAINING

| Clinical Fellows | 2 |

Division Highlights

Significant Funding in 2017

In FY 17, the division received the following funding:

- **CCTST Community Health Grant “Promoting FOsTer Sport Team Program (FOoTSTEP)”** ($14,710.00)
- **Cincinnati Children’s Hospital GAP Award Funding AMSSM-ACSM Clinical Research Grant “The Pediatric Exercise Vital Sign: Screening Children for Exercise Deficit Disorder”** ($20,000.00)
- **Cincinnati Children’s Hospital Research Innovation Funding (IA# 31-41165-587000) “Prospective Model of Brain Plasticity Associated with Musculoskeletal Trauma and Sensorimotor Training”** ($60,481.00)
- **National Institutes of Health (NIH) (U01 AR067997-01A1) “Real-time Sensorimotor Feedback for Injury Prevention Assessed in Virtual Reality”** ($2,459,667.00)
- **AMSSM Humanitarian Project Grant “Sideline Survival Course”** ($2,000.00)
- **National Institutes of Health (U01 AR070474) “Multi-site randomized clinical trial of FIT Teens for juvenile fibromyalgia”** ($7,544,427.00)
- **Cincinnati Children’s Hospital (Ohio EMS) “Motion capture to determine critical biomechanics of laryngoscopy and tracheal intubation”** ($78,552.00)
- **NFL Club Matching Certified Athletic Trainer Grant “NFL Foundation ATC Outreach Grant”** ($25,000.00)

2. Grooms DR; Myer GD. Upgraded hardware - What about the software? Brain updates for return to play following ACL reconstruction. *British journal of sports medicine.* 2017; 51:418-419.


7. Wall EJ; Milewski MD; Carey JL; Shea KG; Ganley TJ; Polousky JD; Grimm NL; Eismann EA; Jr JJC; Murnaghan L. The Reliability of Assessing Radiographic Healing of Osteochondritis Dissecans of the Knee. *American Journal of Sports Medicine.* 2017; 45:1370-1375.


15. Tran ST; Guite JW; Pantaleao A; Pfeiffer M; Myer GD; Sil S; Thomas SM; Ting TV; Williams SE; Edelheit B. Preliminary Outcomes of a Cross-Site Cognitive- Behavioral and Neuromuscular Integrative Training Intervention for Juvenile Fibromyalgia. *Arthritis Care and Research.* 2017; 69:413-420.

17. Gokeler A; Bisschop M; Myer GD; Benjaminse A; Dijkstra PU; van Keeken HG; van Raay JJAM; Burgerhof JGM; Otten E. **Immersive virtual reality improves movement patterns in patients after ACL reconstruction: implications for enhanced criteria-based return-to-sport rehabilitation.** *Knee Surgery, Sports Traumatology, Arthroscopy.* 2016; 24:2280-2286.

18. Ittenbach RF; Huang G; Foss KDB; Hewett TE; Myer GD. **Reliability and Validity of the Anterior Knee Pain Scale: Applications for Use as an Epidemiologic Screener.** *PloS one.* 2016; 11:e0159204-e0159204.

19. DiCesare CA; Kiefer AW; Nalepka P; Myer GD. **Quantification and analysis of saccadic and smooth pursuit eye movements and fixations to detect oculomotor deficits.** *Behavior Research Methods.* 2017; 49:258-266.

20. Bailey DM; Clark JF; Myer GD; Fisher JA; Swenson ER; Stacey BS; Smith JA; Owens TS; Bailey DM. **Commentaries on Viewpoint: "Tighter fit" theory-physiologists explain why "higher altitude" and jugular occlusion are unlikely to reduce risks for sports concussion and brain injuries..** *Journal of applied physiology (Bethesda, Md. : 1985).* 2017; 122:218-220.


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**Grants, Contracts, and Industry Agreements**

**Annual Grant Award Dollars**

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<tr>
<th>Investigator</th>
<th>Title</th>
<th>Sponsor</th>
<th>ID</th>
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<td>Gregory D Myer, PhD</td>
<td>Real-Time Sensorimotor Feedback for Injury Prevention Assessed in Virtual Reality</td>
<td>National Institutes of Health</td>
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<td>Gregory D Myer, PhD</td>
<td>Multi-faceted Approach to Modeling ACL Injury Mechanisms</td>
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<td>Mark Paterno, PT</td>
<td>Real-time Optimized Biofeedback Utilizing Sport Techniques (ROBUST)</td>
<td>National Institutes of Health (High Point University)</td>
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**Total Annual Grant Award Dollars** $769,806

**Annual Industry Award Dollars**

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<tr>
<td>Gregory D Myer, PhD</td>
<td>Q30 Labs, LLC</td>
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